

- PLANTING NOTES**
- LIMIT OF DISTURBANCE LINES WITHIN JURISDICTIONAL WETLANDS SHALL BE PLANTED WITH A CONTINUOUS ROW OF EASTERN WHITE PINE (PINUS STROBUS), 4" TALL, BALLED AND BURLAPPED AND PLANTED 10' O.C. (12 REQUIRED)
 - ANY PLANTING WHICH FAILS TO SURVIVE FOR ONE FULL GROWING SEASON SHALL BE REPLACED AT NO COST TO THE OWNER OR DEVELOPER. REPLACEMENT PLANTINGS SHALL BE SIMILARLY QUANTIFIED FOR ONE FULL YEAR.
 - ALL DISTURBED AREAS WITHIN JURISDICTIONAL WETLANDS SHALL BE STABILIZED WITH 4" LOAM & CONSERVATION GRASS SEED MIX COVERED WITH SPREAD HAY MULCH.
 - ALL OTHER DISTURBED AREAS SHALL BE STABILIZED WITH 4" LOAM & SEAS OR SOD.

STORMWATER MANAGEMENT INFORMATION
 PROPOSED IMPERVIOUS=3,000 S.F.
 (PROPOSED HOUSE, DRIVE & WALKS)

PROVIDE 115 S.F. AND 74 S.F. 8" DEEP RAINGARDEN FOR TREATMENT OF 1050 S.F. DRIVEWAY

PROVIDE 56 S.F., 115 S.F. AND 150 S.F. 8" DEEP RAINGARDEN FOR TREATMENT OF 1,950 S.F. RESIDENCE

- EROSION CONTROL & SOIL STABILIZATION PROGRAM**
- DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
 - ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
 - THE TOP SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH R.I. STANDARD SPECIFICATION M. 22.
 - THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
 - THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING PERMANENT SEEDING MIXTURES:

A. MOWED AREA (ALL PLATS OR SLOPES LESS THAN 3:1)

| MIXTURE | % BY WT. | SEEDING DATES |
|--------------------|-------------|-----------------|
| RED FESCUE | 70 | APRIL 1-JUNE 15 |
| KENTUCKY BLUEGRASS | 15 | AUG. 15-OCT. 15 |
| COLONIAL BENTGRASS | 5 | |
| PERENNIAL RYEGRASS | 10 | |
| TOTAL | 200 LBS./AC | |

B. UNMOWED AREA OR INFREQUENTLY MOWED (FLAT OR SLOPES GREATER THAN 3:1)

| MIXTURE | % BY WT. | SEEDING DATES |
|--------------------|-------------|-----------------|
| RED FESCUE | 70 | APRIL 1-JUNE 15 |
| COLONIAL BENTGRASS | 5 | AUG. 15-OCT. 15 |
| PERENNIAL RYEGRASS | 10 | |
| BIRDSEED TREATON | 15 | |
| TOTAL | 100 LBS./AC | |

C. CONSERVATION SEEDING AREAS

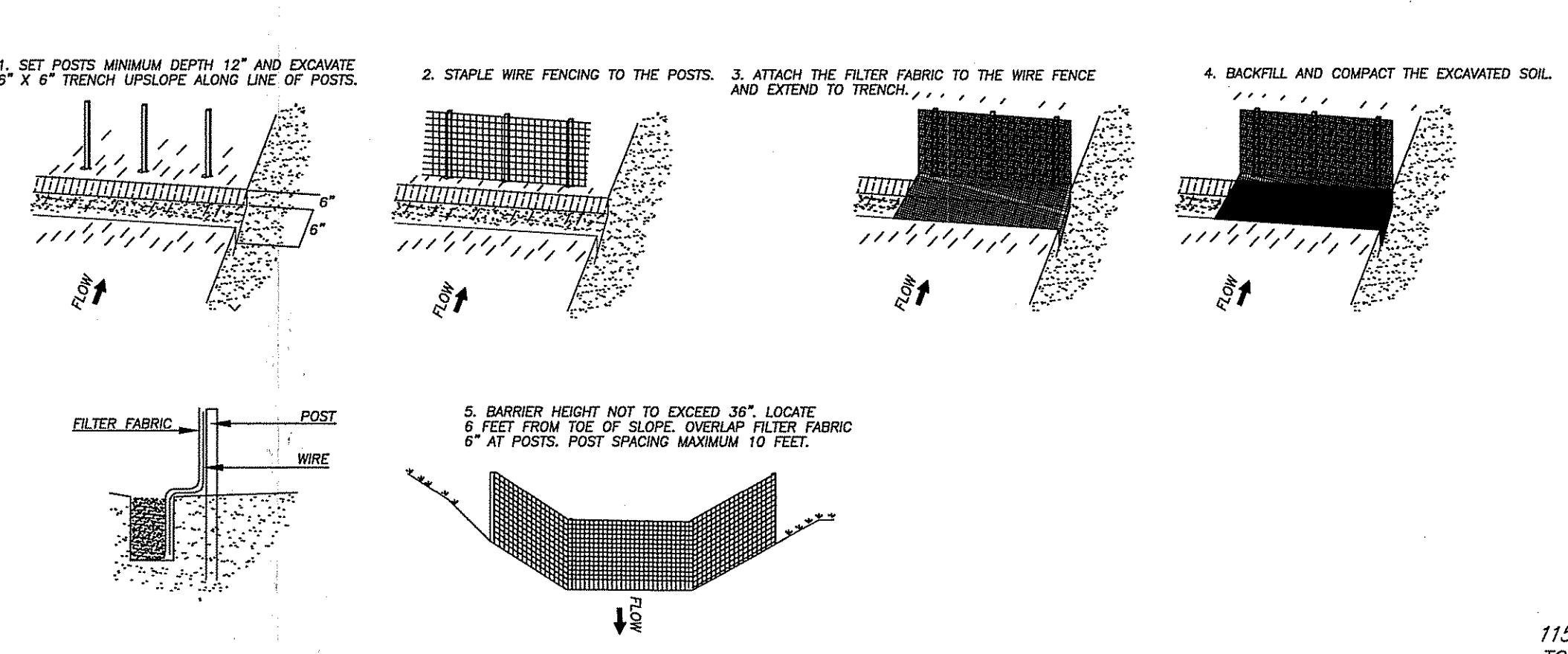
| MIXTURE | % BY WT. | SEEDING DATES |
|--------------------|-------------|-----------------|
| TALL FESCUE | 32 | APRIL 1-JUNE 15 |
| RED FESCUE | 24 | AUG. 15-OCT. 15 |
| PERENNIAL RYEGRASS | 18 | |
| WILDFLOWER MIX | 15 | |
| REED CANARY GRASS | 7 | |
| REDTOP | 4 | |
| TOTAL | 200 LBS./AC | |

- TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
- HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 LBS./AC.
- ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SPECIES ARE RECOMMENDED:

| SPECIES | LBS./1,000 S.F. | LBS./AC. | SEEDING DATES |
|--------------------|-----------------|----------|---------------|
| ANNUAL RYEGRASS | 1.0 - 1.5 | 40 - 60 | 3/1 - 6/1 |
| PERENNIAL RYEGRASS | 1.0 - 1.5 | 40 - 60 | 3/1 - 6/1 |
| SUDAN GRASS | 0.7 - 1.0 | 30 - 40 | 5/15 - 8/15 |
| MILLET | 0.7 - 1.0 | 30 - 40 | 5/15 - 8/15 |
| WINTER RYE | 3.0 | 120 | 4/15 - 6/15 |

- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 - OCTOBER 15.
- ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STD. SPECIFICATIONS SECTION 202.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
- STOCKPILES OF TOPSOILS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 3:1 AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED.
- ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
- REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.

SILT FENCE EROSION CHECK DETAIL



RAINGARDEN DRAINAGE NOTES:
 REFER TO STORMWATER MANAGEMENT INFORMATION & PLAN FOR SIZES AND DEPTHS OF RAINGARDENS GRADE TO DRAIN FROM ROOF LEADERS TO RAINGARDENS. S=0.01/FT. MIN. (0.2" APPROX.)

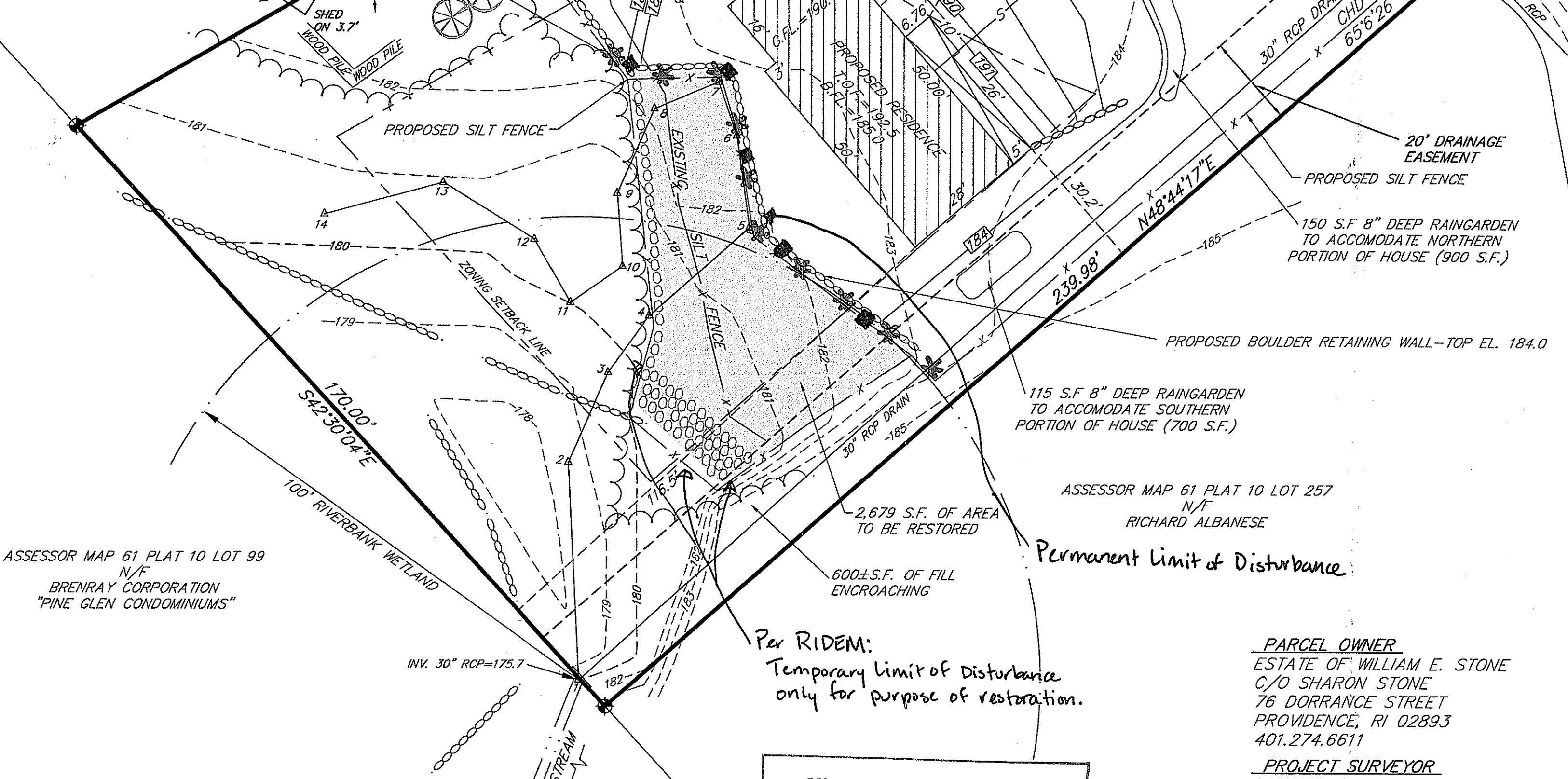
- GENERAL NOTES**
- ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 1997) WITH ALL CORRECTIONS AND ADDENDA AND THE 1998 R.I. STANDARD SPECIFICATIONS WITH ALL CORRECTIONS AND ADDENDA.
 - EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEEDED. SEE EROSION CONTROL PROGRAM.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
 - IN ALL EXCAVATION AND REPLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
 - ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS AND OTHER REFUSE SHALL BE DISCARDED OFF SITE OUTSIDE OF ALL WETLANDS AND WETLANDS SETBACK AREAS UNLESS OTHERWISE SPECIFIED.
 - ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL STATE AND TOWN REGULATIONS AND PERMITS.

- SEDIMENTATION CONTROL PROGRAM**
- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE STATE HIGHWAY OR ADJOINING PROPERTIES.
 - BANKS OR SLOPES OVER 5 PERCENT SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH.
 - DURING CONSTRUCTION THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
 - SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
 - CARE SHALL BE TAKEN SO NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORM WATER FLOW.
 - ADDITIONAL HAYBALES, SILT FENCE OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
 - REFERENCE THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1988, AS A GUIDE.

- ORDER OF PROCEDURE**
- PRIOR TO ANY CONSTRUCTION OR EXCAVATION, HAYBALES OR SILT FENCE SHALL BE INSTALLED AT THE PROPERTY LINE OR LIMIT OF DISTURBANCE. TEMPORARY HAYBALES OR SILT FENCE SHALL BE INSTALLED AT THE LIMIT OF WORK ACTIVITY IF CONSTRUCTION IS TO BE DONE IN PHASES.
 - ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
 - IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.
 - TEMPORARY HAYBALES AND SANDBAGS ALONG AND AT THE ENDS OF ROADWAYS MAY ALSO BE REMOVED AFTER FINAL SOIL STABILIZATION HAS BEEN ACHIEVED AND APPROVED.
 - HAYBALES LOCATED AT DRAINAGE INLETS OR OUTLETS MUST REMAIN UNTIL SUCH TIME THAT A DESIRABLE STAND OF GRASS OR GROUND COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.

- NOTES FOR RESTORATION**
- EROSION CONTROLS SHALL BE ESTABLISHED PRIOR TO ANY ACTIVITY.
 - ALL FILL WITHIN THE RESTORATION AREA SHALL BE REMOVED AND PRE-DISTURBANCE GRADES SHALL BE RE-ESTABLISHED.
 - ALL PORTIONS OF THE STONE WALL SHALL BE REMOVED AND RELOCATED TO THE PROPOSED LIMIT OF DISTURBANCE IDENTIFIED FOR THE RESIDENTIAL DEVELOPMENT OF THE LOT.
 - 4-6" OF SUITABLE TOPSOIL SHALL BE SPREAD EVENLY THROUGHOUT THE RESTORATION AREA.
 - THE AREA SHALL BE HYDROSEEDING WITH A CONSERVATION GRASS MIXTURE.
 - AFTER SEEDING, THE RESTORATION AREA SHALL BE PLANTED WITH THE FOLLOWING:
 - 10 RED MAPLE (ACER RUBRUM), 5-6" TALL, SPACED 12' ON-CENTER
 - 25 PERPETRUBUS (OLETHRA ALMOFUA), 2-3" TALL, SPACED 6' ON-CENTER
 - 25 ARROWWOOD (VIBURNUM DENTATUM), 2-3" TALL, SPACED 6' ON-CENTER
 - 25 HIGHBUSH BLUEBERRY (VACCINIUM CORYMBOSUM)
 - TREES AND SHRUBS SHALL BE WATERED AS NEEDED DURING THE SUMMER TO ENSURE SURVIVAL.
 - THE RESTORATION AREA SHALL BE ALLOWED TO REVEGETATE NATURALLY.

Revised per RIDEM!
 PROPOSED NORTHERN WHITE CEDARS PLANTINGS ALONG LIMITS OF DISTURBANCE AS SHOWN, 5-6' TALL, SPACED 8' ON CENTER.



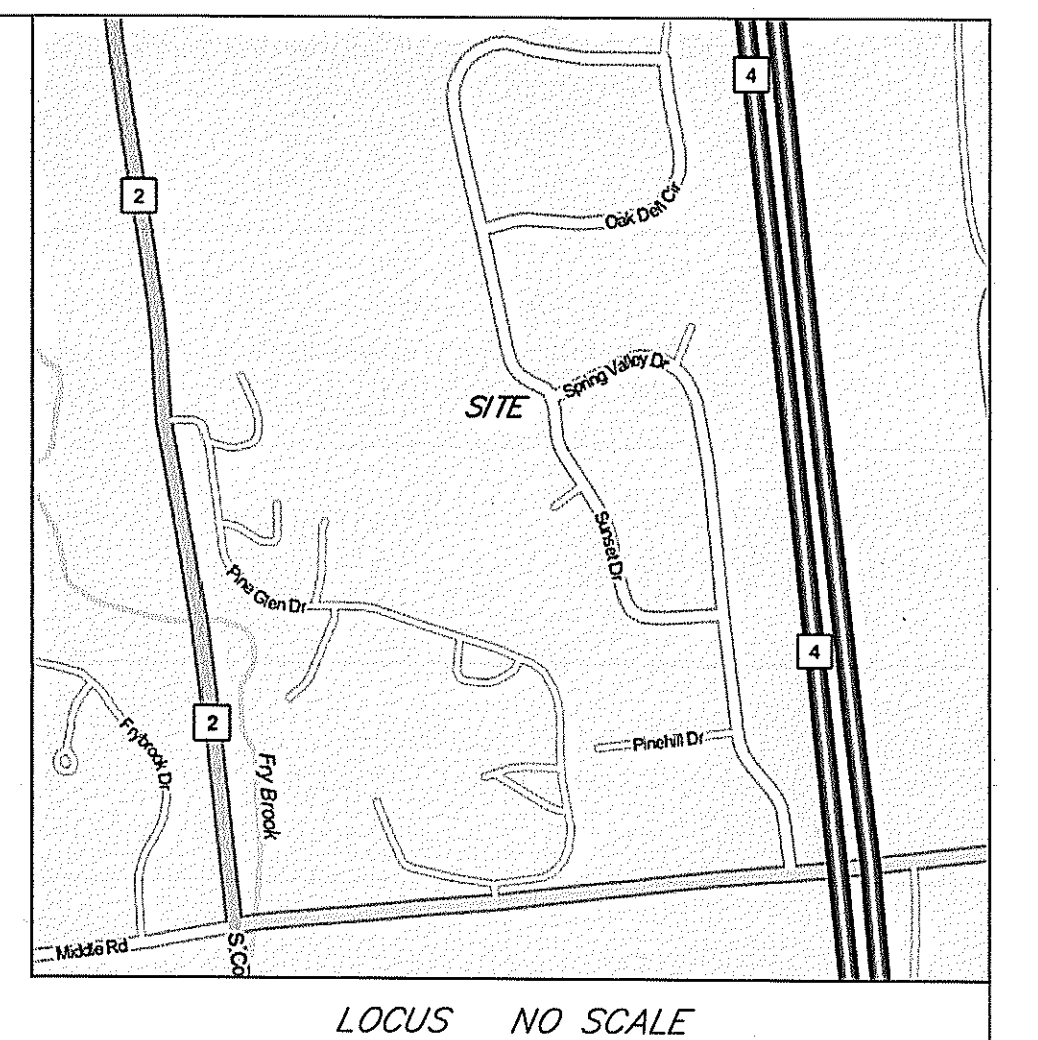
RIDEM WETLANDS
 INSIGNIFICANT ALTERATION #04-0125
 PERMIT APPROVAL DATED 4/21/04.

FLOOD NOTE
 ENTIRE PARCEL FALLS IN THE FOLLOWING ZONES PER FEMA FIRM PANEL 138 OF 251, KENT COUNTY, RHODE ISLAND, MAP NUMBER 44003C0138G, REVISED DECEMBER 3, 2010:
 ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN)
 ZONE D (AREAS IN WHICH FLOOD HAZARDS ARE UNDETERMINED, BUT POSSIBLE)
 NOTE: BASEMENT FLOOR ELEV. 185.0 AS RECOMMENDED BY FLOODPLAIN COMPENSATION, CALCULATION AND ANALYSIS REPORT BY PATRICIA K. WALKER, PE 5331 DATED 3-4-04 AS ADJUSTED TO NAVD 88 DATUM

REFERENCES:
 RECORDED PLAT 267, ENTITLED, "PINWOOD TERRACE SECTION 4... EAST GREENWICH, R.I., BY: BRENRAY CORPORATION... DATED: NOVEMBER, 1975... SCALE 1"=50'..."

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING TREELINE
- FLAGGED WETLAND EDGE
- 50' PERIMETER WETLAND
- EXISTING STONEWALL
- EXISTING EDGE OF PAVEMENT
- EXISTING DRAINAGE MANHOLE
- EXISTING SEWER MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE
- EXISTING GAS GATE
- PROPOSED IRON ROD
- AREA TO BE RESTORED (SEE RESTORATION NOTES)
- STONE WALL TO BE RELOCATED
- LOD & NEW STONE WALL LOCATION
- EXISTING SILT FENCE
- PROPOSED SILT FENCE/EROSION CONTROL LIMIT
- PROPOSED PLANTING - See verified planting requirements
- Permanent Buffer Markers, per RIDEM.
- See Conditions 18 & 19



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 13 2015 FILE # 15-0123
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

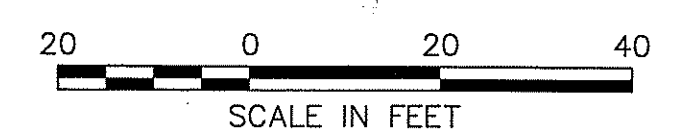
MICHAEL J. McCORMICK
 No. 1972
 PROFESSIONAL LAND SURVEYOR
 Environmental Management
 THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION BOUNDARY CLASS II REGISTERED PROFESSIONAL LAND SURVEYORS CULTURE CLASS II
 MICHAEL J. McCORMICK 1972
 RI CODE LS-4101

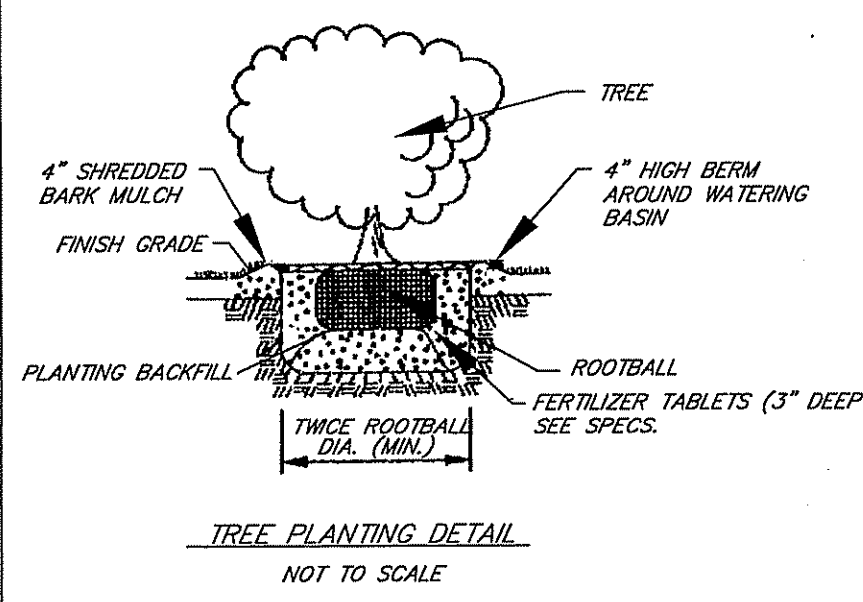
PARCEL OWNER
 ESTATE OF WILLIAM E. STONE
 C/O SHARON STONE
 76 DORRANCE STREET
 PROVIDENCE, RI 02893
 401.274.6611

PROJECT SURVEYOR
 MICHAEL J. McCORMICK
 ALPHA ASSOCIATES, LTD.
 35 ROCKY HOLLOW ROAD
 EAST GREENWICH, RI 02818
 401.884.8506

PARCEL ZONING
 ZONE R-30
 FRONT YARD 40'
 SIDE YARD 30'
 REAR YARD 40'

PROPOSED SITE PLAN
 ASSESSORS MAP 61 PLAT 10 LOT 258
 EAST GREENWICH, RHODE ISLAND
 SPRING VALLEY DRIVE
 PREPARED FOR: ZARRELLA DEVELOPMENT
 PREPARED BY: ALPHA ASSOCIATES, LTD.
 35 ROCKY HOLLOW ROAD
 EAST GREENWICH, RI 02818
 SCALE: 1"=20' JANUARY, 2015 SHEET 1 OF 2
 revised: 4-5-15, 6-3-15





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- LIMIT OF DISTURBANCE LINES WITHIN JURISDICTIONAL WETLANDS SHALL BE PLANTED WITH A CONTINUOUS ROW OF EASTERN WHITE PINE (PINUS STRICKS), 4\"/>
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STORMWATER MANAGEMENT INFORMATION

PROPOSED IMPERVIOUS=3,000 S.F.
(PROPOSED HOUSE, DRIVE & WALKS)

PROVIDE 115 S.F. AND 74 S.F. 8\"/>

PROVIDE 56 S.F., 115 S.F. AND 150 S.F. 8\"/>

EROSION CONTROL & SOIL STABILIZATION PROGRAM

- DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
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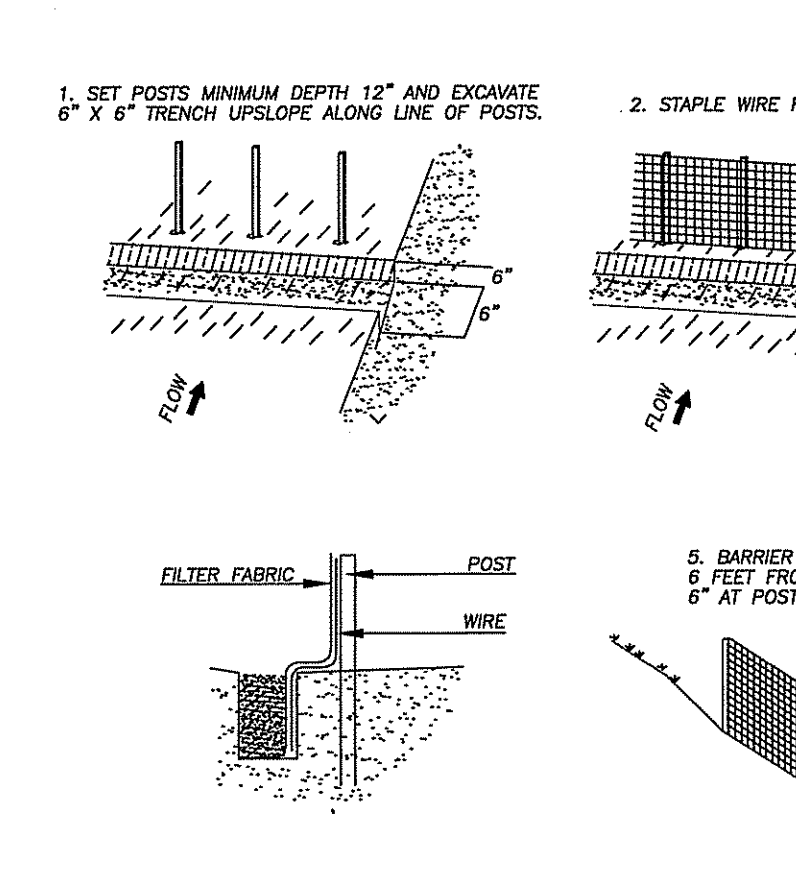
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SILT FENCE EROSION CHECK DETAIL



RAIN GARDEN DRAINAGE NOTES

REFER TO STORMWATER MANAGEMENT INFORMATION & PLAN FOR SIZES AND DEPTHS OF RAIN GARDENS

GRADE TO DRAIN FROM ROOF LEADERS TO RAIN GARDENS. S=0.01/FT. MIN. (0.2\"/>

GENERAL NOTES

- ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 1997) WITH ALL CORRECTIONS AND ADDENDA AND THE 1998 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA.
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SEDIMENTATION CONTROL PROGRAM

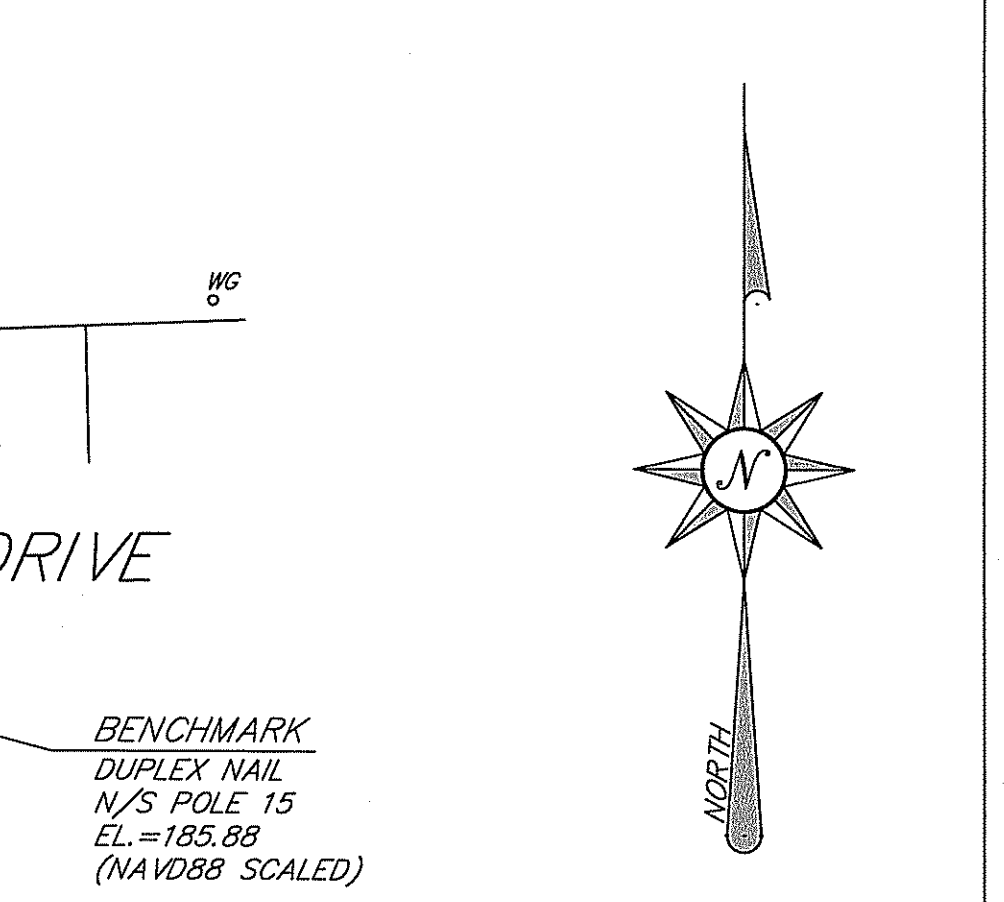
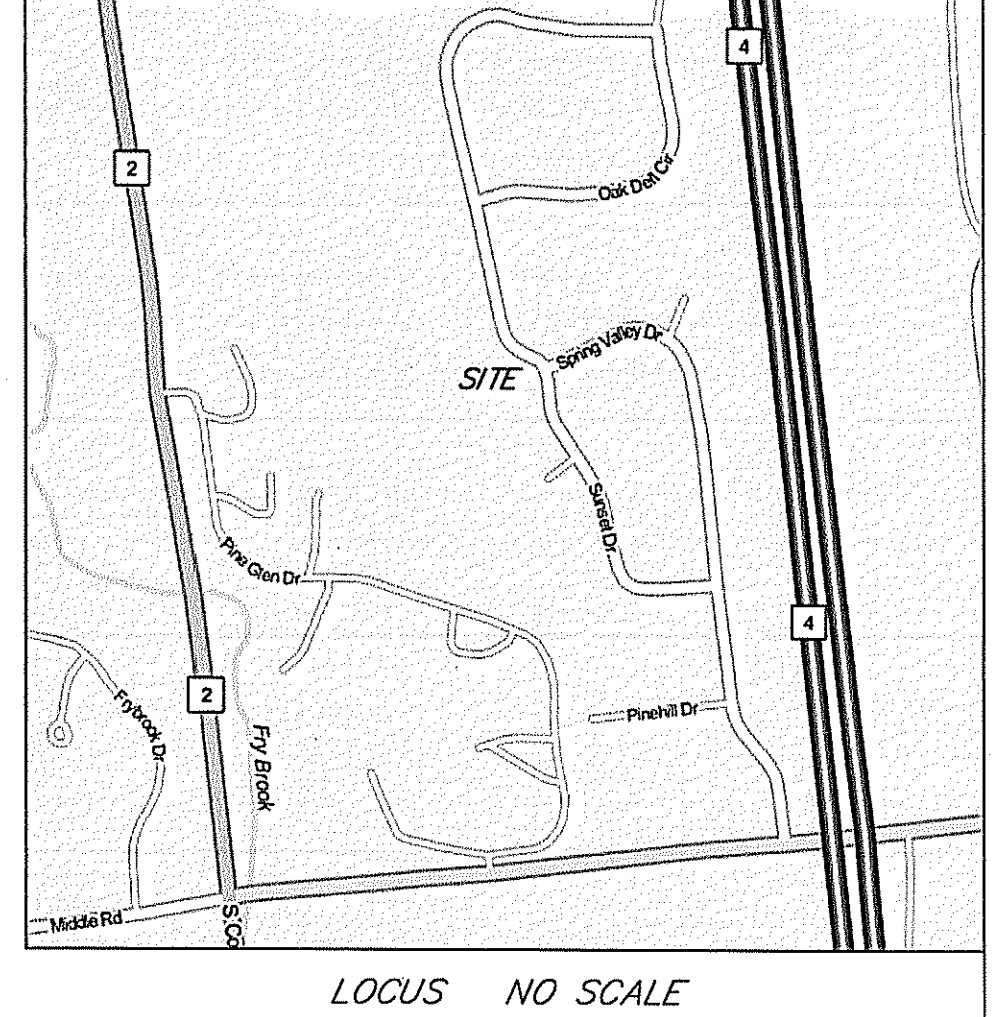
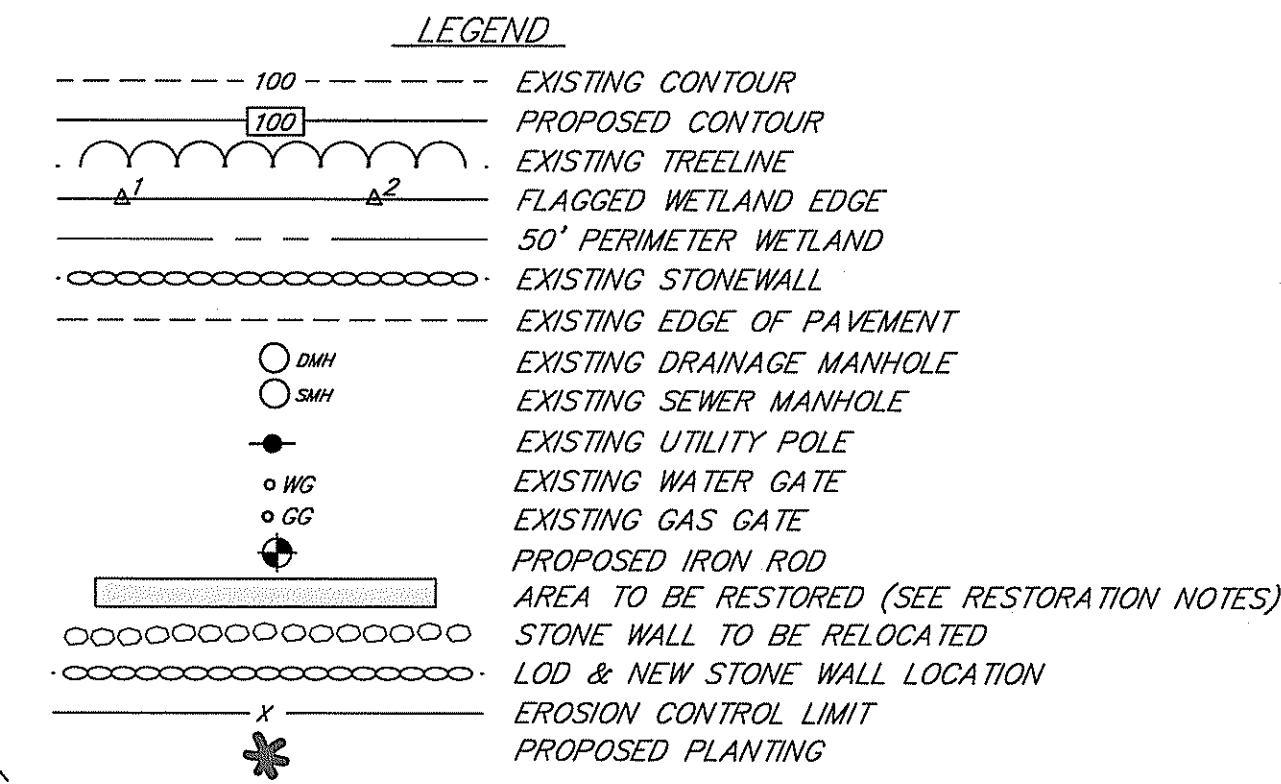
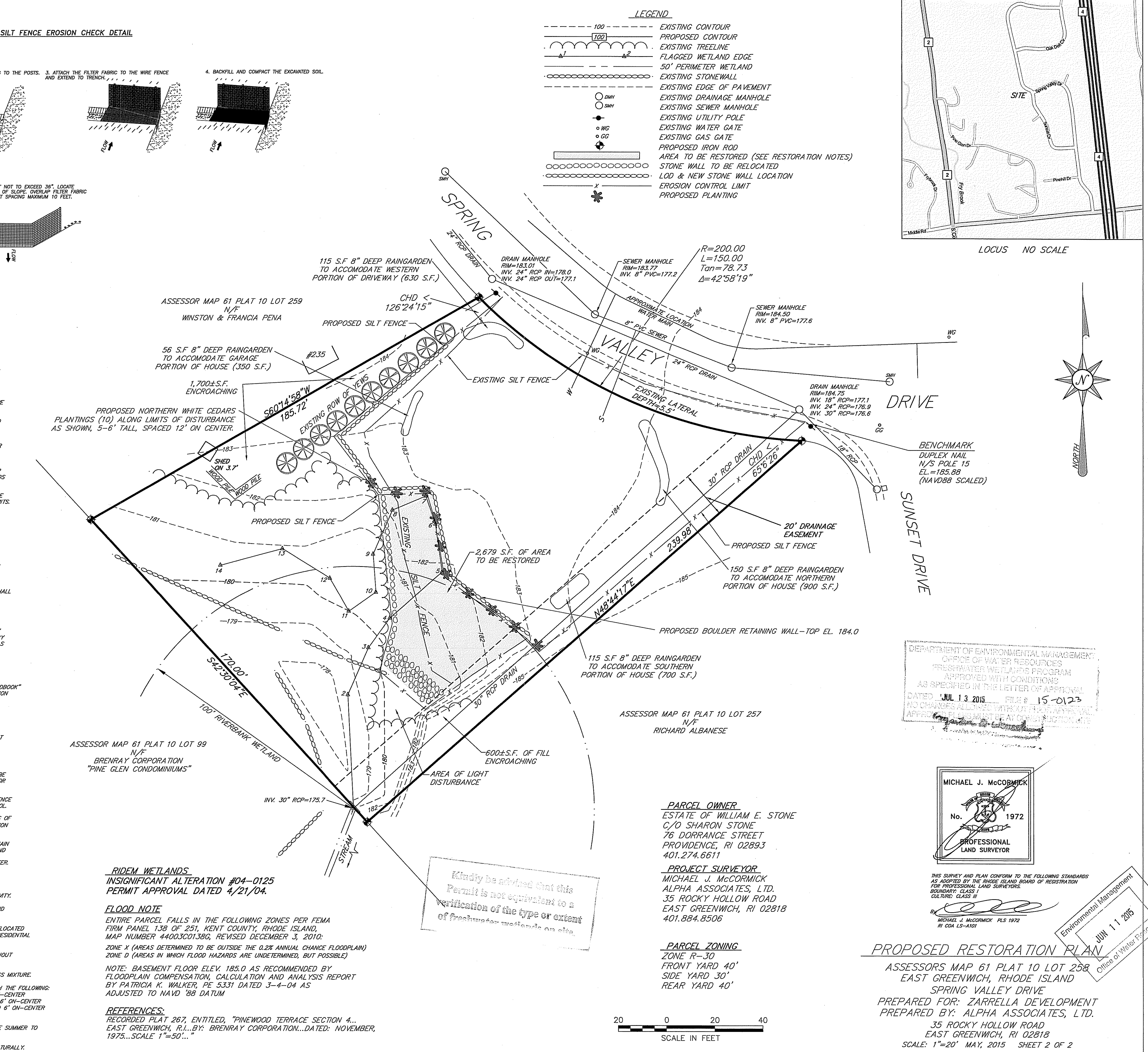
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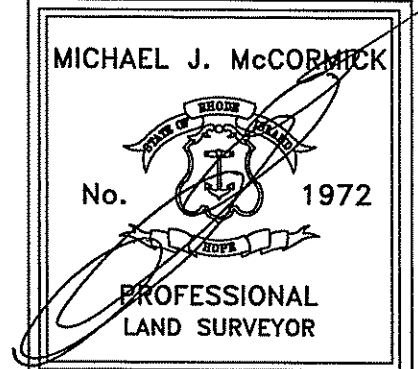
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NOTES FOR RESTORATION

- EROSION CONTROLS SHALL BE ESTABLISHED PRIOR TO ANY ACTIVITY.
- ALL FILL WITHIN THE RESTORATION AREA SHALL BE REMOVED AND PRE-DISTURBANCE GRADES SHALL BE RE-ESTABLISHED.
- ALL PORTIONS OF THE STONE WALL SHALL BE REMOVED AND RELOCATED TO THE PROPOSED LIMIT OF DISTURBANCE IDENTIFIED FOR THE RESIDENTIAL DEVELOPMENT OF THE LOT.
- 4-6\"/>
- THE AREA SHALL BE HYDROSEEDING WITH A CONSERVATION GRASS MIXTURE.
- AFTER SEEDING, THE RESTORATION AREA SHALL BE PLANTED WITH THE FOLLOWING:
 - 10 RED MAPLE (ACER RUBRUM), 5-6\"/>
 - 25 PEPPERBUSH (CLETHRA ALNIFOLIA), 2-3\"/>
 - 25 ARROWWOOD (VIBURNUM DENTATUM), 2-3\"/>
 - 25 HIGHBUSH BLUEBERRY (VACCINIUM CORYMBOSUM)
- TREES AND SHRUBS SHALL BE WATERED AS NEEDED DURING THE SUMMER TO ENSURE SURVIVAL.
- THE RESTORATION AREA SHALL BE ALLOWED TO REVEGETATE NATURALLY.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 13 2015 FILE # 15-0123
NO CHANGES ALLOWED WITHOUT THE WRITTEN
APPROVAL OF THE STATE ENGINEER



PARCEL OWNER
ESTATE OF WILLIAM E. STONE
C/O SHARON STONE
76 DORRANCE STREET
PROVIDENCE, RI 02893
401.274.6611

PROJECT SURVEYOR
MICHAEL J. MCCORMICK
ALPHA ASSOCIATES, LTD.
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RI 02818
401.884.8506

PROPOSED RESTORATION PLAN

ASSESSORS MAP 61 PLAT 10 LOT 258
EAST GREENWICH, RHODE ISLAND
SPRING VALLEY DRIVE
PREPARED FOR: ZARRELLA DEVELOPMENT
PREPARED BY: ALPHA ASSOCIATES, LTD.
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RI 02818
SCALE: 1"=20' MAY, 2015 SHEET 2 OF 2

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

RIDEM WETLANDS
INSIGNIFICANT ALTERATION #04-0125
PERMIT APPROVAL DATED 4/21/04.

FLOOD NOTE
ENTIRE PARCEL FALLS IN THE FOLLOWING ZONES PER FEMA FIRM PANEL 138 OF 251, KENT COUNTY, RHODE ISLAND, MAP NUMBER 44003C0138G, REVISED DECEMBER 3, 2010:
ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN)
ZONE D (AREAS IN WHICH FLOOD HAZARDS ARE UNDETERMINED, BUT POSSIBLE)
NOTE: BASEMENT FLOOR ELEV. 185.0 AS RECOMMENDED BY FLOODPLAIN COMPENSATION, CALCULATION AND ANALYSIS REPORT BY PATRICIA K. WALKER, PE 5331 DATED 3-4-04 AS ADJUSTED TO NAVD '88 DATUM

REFERENCES:
RECORDED PLAT 267, ENTITLED, "PINEWOOD TERRACE SECTION 4... EAST GREENWICH, R.I... BY: BRENNAY CORPORATION... DATED: NOVEMBER, 1975... SCALE 1"=50'...

